

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-21. (canceled)

22. (new) A computer readable information record medium with information recorded in a non-transitory state thereon, comprising:

an object data file for storing object data comprising a first video stream, a second video stream which corresponds to a different view point from a view point of the first video stream, and a first audio stream;

a play list information comprising a plurality of item information each of which indicates information related to a reproduction range of the object data; and

an object information file for storing object information which indicates a storing position of the object data which corresponds to each of the plurality item information,

each of the object data file, the play list information and the object information file is recorded into a different area, respectively, the object information comprising association definition information which defines, for each stream, a relationship between each stream and each packet which constructs each stream.

23. (new) The computer readable information record medium according to claim 22, wherein

the object data defines first information unit which includes the first video stream, the second video stream and the first audio stream,

the first audio stream which constructs the first information unit is commonly used to both of the first and second video stream which construct the first information unit,

each of the first video stream, the second video stream and the first audio stream, which constructs the first information unit, is recorded with being divided into a plurality of packets,

the plurality of packets which correspond to the first video stream, the second video stream and the first audio stream, which constructs the first information unit, are collectively multiplexed.

24. (new) The computer readable information record medium according to claim 22, wherein

the object information comprises information for indicating packet identification number for identifying packet which corresponds to each stream.

25. (new) The computer readable information record medium according to claim 23, wherein

the object data comprises sub-picture stream for displaying a menu,

the sub-picture stream is recorded with being divided into a plurality of packets, and is collectively multiplexed with the first video stream, the second video stream and the first audio stream,

the play list information comprising sub-path information which indicates information related to a reproduction range of the sub-picture stream; and

the sub-picture stream is superimposed on the first or second video stream,

the sub-picture stream is commonly used to both of the first and second video stream which construct the first information unit.

26. (new) An information record apparatus comprising:

a first record device for recording an object data file for storing object data comprising a first video stream, a second video stream which corresponds to a different view point from a view point of the first video stream, and a first audio stream;

a second record device for recording a play list information comprising a plurality of item information each of which indicates information related to a reproduction range of the object data; and

a third record device for recording an object information file for storing object information which indicates a storing position of the object data which corresponds to each of the plurality item information,

each of the object data file, the play list information and the object information file is recorded into a different area, respectively, the object information including association definition information which defines, for each stream, a relationship between each stream and each packet which constructs each stream.

27. (new) An information record method comprising:

a first record process of recording an object data file for storing object data comprising a first video stream, a second video stream which corresponds to a different view point from a view point of the first video stream, and a first audio stream;

a second record process of recording a play list information comprising a plurality of item information each of which indicates information related to a reproduction range of the object data; and

a third record process of recording an object information file for storing object information which indicates a storing position of the object data which corresponds to each of the plurality item information,

each of the object data file, the play list information and the object information file is recorded into a different area, respectively, the object information including association definition information which defines, for each stream, a relationship between each stream and each packet which constructs each stream.

28. (new) An information reproduction apparatus for reproducing the non-transitory computer readable information record medium according to claim 22,

said apparatus comprising:

a reading device for reproducing the object data file, the object information file and the playlist information; and

a reproduction device for reproducing the object data based on the object information file and the playlist information read by the reading device.

29. (new) An information reproduction method of reproducing the non-transitory computer readable information record medium according to claim 22,

said method comprising:

a reading process of reproducing the object data file, the object information file and the playlist information; and

a reproduction process of reproducing the object data based on the object information file and the playlist information read by the reading process.